

Threaded coupling structure

Abstract of the Present Invention

The present invention is directed to a threaded coupling structure disposed intermediate a non-threaded first member and a second member having a threaded ring wherein the first member and the threaded coupling structure have cooperating mechanical interlocking structures. The unthreaded portion of said first member and the threaded coupling structure mutually interlock and bind each other when a female-type threaded ring, or a threaded cavity, engages the threads of said threaded coupling. The threaded coupling structure according to the present invention may comprise one or more individual parts which interlock with a portion of the first member. Threads are formed only on surface portions of the threaded coupling structure which threads cooperate to securely engage the threaded ring, or threaded cavity, of the second member. Corresponding discrete interlocking structure formed in or on the first member and a portion of one or more of the individual parts of the threaded coupling structure are adapted to provide additional binding force between the first structure and the threaded coupling.